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tic Surfaces in Fourfold Space;" Herbert G. Keppel, "The Cubic Three-Spread Ruled with Planes in Four-fold Space."

The University of Chicago. Herbert Edwin Jordan, "Group Characters of Various Types of Linear Groups;" Thomas E. McKinney, "Concerning a Certain Type of Continued Fractions Depending upon a Variable Parameter;" Robert L. Moore, "Sets of Metrical Hypotheses of Geometry;" Arthur Whipple Smith, "The Symbolic Treatment of Differential Geometry."

The University of Pennsylvania. Oliver Edmunds Glenn, "The Determination of the Abstract Groups of Order p^2qr; p, q, and r being Distinct Primes;" Ulysses Sherman Hanna, "The Bitangentials of the Plane Quintic and Plane Sextic;" Alice Madeleine McKelden, "Groups of Order 2^m that Contain Cyclic Subgroups of Order 2^{m-1}, 2^{m-2}, and 2^{m-3}."

Johns Hopkins University. Henry Bayard Phillips, "Some Invariants and Covariants of Ternary Collineations;" Roswell P. Stephens, I. "On a Curve of the Fifth Class," II. "On a System of Parastroids."

Yale University. Raymond B. McClenon, "On Simple Integrals with Variable Limits;" James Caddall Morehead, "Numbers of the Form $2q=1$ and Fermats Numbers."

Harvard University. Walter Burton Ford, "On a Problem of Analytic Extension as Applied to Functions Defined by Power Series."

Princeton University. Adam M. Hiltebeitel, "The Problem of Two Fixed Centers and Certain of its Generalizations."

Leland Stanford University. William A. Manning, "Studies on the Class of Primitive Substitution Groups."

Cornell University. Oscar P. Akers, "On the Congruence of Axes in a Bundle of Linear Complexes."

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BOOKS AND PERIODICALS.

The Continuum as a Type of Order: An Exposition of the Modern Theory. With an Appendix on the Transfinite Numbers. By E. V. Huntington. Reprinted from the *Annals of Mathematics*, (2), Vol. 6, pp. 151-184, and Vol. 7, pp. 15-43. Price, $0.50. The Publication Office of Harvard University.

This reprint gives in 63 pages a systematic elementary exposition of the Dedekind-Cantor theory. The definitions and concepts are presented with great care; numerous simple examples are given to illustrate the systems which have, and those which have not, the property considered. The author is to be congratulated on his success in presenting this important subject in such an attractive and readable form. D.

An Elementary Treatise on Graphs. By George A. Gibson, M. A., F. R. S. E. The MacMillan Co. Price, 3*s*, 6*d*.

Mr. Gibson's book deals with this branch of mathematical science in a manner at once thorough, connected, and attractive. The earlier portions are presented in a form suitable even for the beginner, whilst the more advanced student will find the treatise adequate for much of his higher work. It discusses the subject in many of its principal developments and considers those amongst its numerous applications which are of primary interest and admit of discussion by means of elementary mathematics. Many and varied problems in geometrical and physical science and others based on statistics are either treated fully for the sake of illustration or proposed as exercises for the student. In the course of his brief preface the author dwells on the importance of assigning its true position to graphical work. Until very lately but little general use was made of graphical methods and there is little likelihood that in this country, at the present time, the graph will receive too much attention by teachers, at the expense of analysis. Mr. Gibson's caution against this is, however, appropriate. As usual, what is desirable is the happy medium—the recognition that, in a sense, graphical representation and analysis may, perhaps, be regarded as complementary instruments of investigation. Each is powerful for special purposes, and a problem is often best understood if considered from the two standpoints. Mr. Gibson's work will prove a thoroughly acceptable text-book, supplying a definite want. G.

Forces Due to Eccentric Weights Attached to Rolling Wheels. By Professor Calvin M. Woodward, Ph. D. Reprinted from *Journal of Association of Engineering Societies,* Vol. XXXV, No. 1.

A noteworthy piece of research on the motion of bodies constrained to move in trochoids. G.

The American Journal of Mathematics. Published under the auspices of Johns Hopkins University. Edited by Frank Morley and other mathematicians.

The October number contains the following contributions: Concerning Certain 4-Space Quintic Configurations of Point Ranges and Congruences, and their Analogues in Ordinary Space, by C. J. Keyser. Some Relations between Group Theory and Number Theory, by G. A. Miller. The Differential Invariants of Space, by J. E. Wright. An Arithmetic Treatment of Some Problems in Analysis Situs, by L. D. Ames. On the Definition of Reducible Hypercomplex Number Systems, by H. B. Leonard.

The Annals of Mathematics. Published under the auspices of Harvard University.

The October number contains the following papers: Concerning Green's Theorem and The Cauchy-Riemann Differential Equations, by M. B. Porter. On the Singularities of Tortuous Curves, by Paul Saurel. On the Twist of a Tortuous Curve, by Paul Saurel. The Continuum as a Type of Order, Chapters V and VI, by E. V. Huntington. A Problem in Analytic Geometry, with a Moral, by Maxime Böcher.

The following periodicals have been received: The Scientific American, The Educational Times, The Nation, The Review of Reviews, The Literary Digest, Ohio Educational Monthly, Sierra Educational News, The Ohio Teacher, The Physical Review, Bulletin of American Mathematical Society, School Science and Mathematics, Proceedings of the London Mathematical Society, The Open Court, The School Visitor, Popular Astronomy, L'Enseignement Mathematique, Bollettino della Associazione.

ERRATA.

Page 64, line 10 from bottom, for "superficial" read "artificial."

Page 161, line 4, should read, $\frac{1}{2}+\frac{1}{3}+\frac{1}{8}+\frac{1}{30}+\frac{1}{144}+\frac{1}{840}+$ ....